Massimo Bonavita

List of Publications by Year
in descending order

24	11,317	516710 16	610901 24
papers	citations	h-index	g-index

26	26	26	10079
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The ERA5 global reanalysis. Quarterly Journal of the Royal Meteorological Society, 2020, 146, 1999-2049.	2.7	10,272
2	Stochastic representations of model uncertainties at ECMWF: state of the art and future vision. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 2315-2339.	2.7	170
3	Characteristics of Occasional Poor Medium-Range Weather Forecasts for Europe. Bulletin of the American Meteorological Society, 2013, 94, 1393-1405.	3.3	139
4	On the use of EDA background error variances in the ECMWF 4Dâ€Var. Quarterly Journal of the Royal Meteorological Society, 2012, 138, 1540-1559.	2.7	129
5	The evolution of the ECMWF hybrid data assimilation system. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 287-303.	2.7	128
6	The Role of Satellite Data in the Forecasting of Hurricane Sandy. Monthly Weather Review, 2014, 142, 634-646.	1.4	67
7	Machine Learning for Model Error Inference and Correction. Journal of Advances in Modeling Earth Systems, 2020, 12, e2020MS002232.	3.8	54
8	Using machine learning to correct model error in data assimilation and forecast applications. Quarterly Journal of the Royal Meteorological Society, 2021, 147, 3067-3084.	2.7	49
9	Estimating backgroundâ€error variances with the ECMWF Ensemble of Data Assimilations system: some effects of ensemble size and dayâ€toâ€day variability. Quarterly Journal of the Royal Meteorological Society, 2011, 137, 423-434.	2.7	47
10	EnKF and Hybrid Gain Ensemble Data Assimilation. Part I: EnKF Implementation. Monthly Weather Review, 2015, 143, 4847-4864.	1.4	44
11	EnKF and Hybrid Gain Ensemble Data Assimilation. Part II: EnKF and Hybrid Gain Results. Monthly Weather Review, 2015, 143, 4865-4882.	1.4	33
12	Ensemble data assimilation with the CNMCA regional forecasting system. Quarterly Journal of the Royal Meteorological Society, 2010, 136, 132-145.	2.7	27
13	On some aspects of the impact of GPSRO observations in global numerical weather prediction. Quarterly Journal of the Royal Meteorological Society, 2014, 140, 2546-2562.	2.7	26
14	On the impact of reâ€centring initial conditions for ensemble forecasts. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 2571-2581.	2.7	25
15	The ensemble Kalman filter in an operational regional NWP system: preliminary results with real observations. Quarterly Journal of the Royal Meteorological Society, 2008, 134, 1733-1744.	2.7	21
16	A comparison of combined data assimilation and machine learning methods for offline and online model error correction. Journal of Computational Science, 2021, 55, 101468.	2.9	19
17	Implicit and explicit crossâ€correlations in coupled data assimilation. Quarterly Journal of the Royal Meteorological Society, 2018, 144, 1851-1863.	2.7	17
18	Nonlinear effects in 4D-Var. Nonlinear Processes in Geophysics, 2018, 25, 713-729.	1.3	14

#	Article	IF	Citations
19	Coupled data assimilation at ECMWF: current status, challenges and future developments. Quarterly Journal of the Royal Meteorological Society, 2022, 148, 2672-2702.	2.7	11
20	Exploring the structure of timeâ€correlated model errors in the <scp>ECMWF</scp> data assimilation system. Quarterly Journal of the Royal Meteorological Society, 2021, 147, 3454-3471.	2.7	4
21	Distributed Observations in Meteorological Ensemble Data Assimilation and Forecasting. , 2018, , .		3
22	<scp>4Dâ€Var</scp> for numerical weather prediction. Weather, 2021, 76, 65-66.	0.7	3
23	Multi-sensor analyses of the skin temperature for the assimilation of satellite radiances in the European Centre for Medium-Range Weather Forecasts (ECMWF) Integrated Forecasting System (IFS,) Tj ETQq1 1 0.784314 rgBT /Over	0.7	3
24	All-Sky Microwave Radiances Assimilated with an Ensemble Kalman Filter. Monthly Weather Review, 2020, 148, 2737-2760.	1.4	3